

List of Supporting Documents for the Development of
Missouri's Antidegradation Implementation Procedure
and Associated Regulatory Impact Report

I. Documents on which specific decisions were based. Copies of these documents are available from the Missouri Department of Natural Resource's administrative record on the procedure development and/or the listed Web addresses (URLs):

A. Peer-Reviewed Publications

1. OHIO VALLEY ENVIRONMENTAL COALITION, et al., Plaintiffs, v. MARIANNE LAMONT HORINKO, Acting Administrator, United States Environmental Protection Agency, Defendant.
CIVIL ACTION NO. 3:02-0059
UNITED STATES DISTRICT COURT FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA, HUNTINGTON DIVISION
2003 U.S. Dist. LEXIS 15359
Aug. 29, 2003, Decided
Aug. 29, 2003, Entered
<http://www.in.gov/idem/rules/progress/water/wpcb0344/antideglibrary/ohiovalleyenvco.pdf>
2. U.S. Environmental Protection Agency (USEPA)
Interim Economic Guidance-Workbook
EPA 823-B-95-002
March 1995
<http://www.epa.gov/waterscience/econ/index.html>
3. USEPA
Water Quality Standards Handbook (Second Edition)
Chapter 4 - Antidegradation
Aug. 1, 1994
<http://www.epa.gov/waterscience/library/wqstandards/handbook.pdf>

B. Non Peer-Reviewed Publications

4. USEPA Memorandum
Date: Aug. 10, 2005
Subject: Tier 2 Antidegradation Reviews and Significance Thresholds
From: Ephraim S. King, Director, Office of Science and Technology
To: Water Management Division Directors Regions 1-10
<http://www.dnr.mo.gov/env/wpp/cwforum/documents/8-05-epa-tier2-memo4.pdf>
5. USEPA Memorandum
Date: Undated
Subject: Questions and Answers on Antidegradation
From: James M. Conlon, Acting Director, Office of Water Regulations and Standards
This document is dated Aug. 1985 in Appendix G, of the *Water Quality Standards Handbook* (Aug. 1, 1994 version).
<http://www.epa.gov/waterscience/library/wqstandards/handbookappx.pdf>

6. USEPA Memorandum
Date: Feb. 22, 1994
Subject: Interpretation of Federal Antidegradation Regulatory Requirements
From: Tutor T. Davies, Director, Office of Science and Technology
To: Water Management Division Directors Region I-X
<http://www.epa.gov/waterscience/library/wqstandards/antidegmemo.pdf>
7. USEPA Memorandum
Date: June 13, 1991
Subject: Antidegradation Policy, ONRW
From: William R. Diamond, Director, Standards and Applied Science Division
To: Victoria Binetti, Chief, Program Support Branch, Region III
<http://www.epa.gov/waterscience/library/wqstandards/antideg3.pdf>
8. USEPA Memorandum
Date: Dec. 10, 1985
Subject: Antidegradation Policy
From: Martha G. Prothos, Director, Permits Division
To: Patrick J. Godsil, Chief, Compliance Branch, Region VIII
<http://www.epa.gov/waterscience/library/wqstandards/antideg2.pdf>
9. USEPA Memorandum
Date: Nov. 22, 1985
Subject: Antidegradation Policy
From: Patrick Tobin, Director, Criteria and Standards Division
To: Water Management Division Directors, Regions I-X
<http://www.epa.gov/waterscience/library/wqstandards/antideg1.pdf>
10. USEPA Memorandum
Date: Undated (although EPA Web site: <http://www.epa.gov/waterscience/library/wqstandards/>, labels it "1985")
Subject: Antidegradation, Wasteloads and Permits
From: Edwin L. Johnson, Director of Water Regulations and Standards (WH-551)
To: Water Management Division Directors Region I-X
<http://www.epa.gov/waterscience/library/wqstandards/antidegpermits.pdf>

II. Documents which provided general information for discussion. Copies of these documents can be obtained by requesting hard copies from the Missouri Department of Natural Resources or from the Internet (using provided Web addresses (URLs)):

A. Peer-Reviewed Publications

11. Arizona Department of Environmental Quality
Antidegradation Implementation Procedures
March 2005
<http://www.dnr.mo.gov/env/wpp/cwforum/documents/11ariz-deq-3-05-aip.pdf>

Arizona's July 2007 Draft version, posted as part of their triennial review:

<http://www.azdeq.gov/environ/water/standards/download/antideg.pdf>

12. Delaware Department of Natural Resources and Environmental Control Policy
Antidegradation Implementation Procedures for Surface Waters of the State
May 28, 1999
<http://www.dnrec.state.de.us/water/antidegp.pdf>
13. Illinois Pollution Control Board
February 21, 2002
REVISION TO ANTIDEGRADATION RULES: 35 ILL. ADM. CODE 302.105, 303.205, 303.206, and 102.800-102.830; R01-13 (Rulemaking – Water)
OPINION AND ORDER OF THE BOARD (by G.T. Girard, R.C. Flemal, J.J. Melas)
Specifically reviewed "Significance Determination" and "*De Minimis*" discussion.
<http://www.dnr.mo.gov/env/wpp/cwforum/documents/2-02-ill-antideg13.pdf>
14. Indiana Department of Environmental Management
Office of Water Quality
March 10, 2005
Second Notice #03-44 (WPCB) Antidegradation Standards on draft rules at:
327 IAC 2-1.3-3, -4, -5, -6, -7, -8, -9, -10
<http://www.dnr.mo.gov/env/wpp/cwforum/documents/indiana-antideg14.pdf>
15. Kentucky Department for Environmental Protection, Division of Water
Water Quality Standards
401 KAR 5:030
Antidegradation policy implementation methodology
15a: *Kentucky Pollution Discharge Elimination System (KPDES), Exceptional Water Alternative Analysis*:
http://www.water.ky.gov/NR/rdonlyres/9E397E8F-EC18-4784-9E94-D56939FD8060/0/KPDES_FORM_EWAA.pdf
15b.: *Kentucky Pollution Discharge Elimination System (KPDES), High Quality Water Alternative Analysis*:
http://www.water.ky.gov/NR/rdonlyres/46E9C20A-DA39-4541-861A-53EAAA79C02/0/KPDES_FORM_HQAA.pdf
16. Nebraska Department of Environmental Quality
Water Quality Division
DRAFT Antidegradation Implementation Procedures for Title 117: Nebraska Surface Water Quality Standards
CPP Document Number: 3.3
June 1994
Contact John Bender, (402) 471-4201; john.bender@ndeq.state.ne.us
17. Ohio Environmental Protection Agency
Antidegradation rule
Effective July 1, 2003
http://www.epa.state.oh.us/dsw/rules/01-05_eff030701.pdf

18. Oregon Department of Environmental Quality, Water Quality Division
Antidegradation Policy Implementation
Internal Management Directive for NPDES Permits and Section 401 Water Quality Certifications
March 2001
<http://www.deq.state.or.us/wq/standards/AntidegPolicyDirect.pdf> As of 7/17/07
<http://www.deq.state.or.us/wq/pubs/imds/antideg.pdf> OR
<http://www.dnr.mo.gov/env/wpp/cwforum/documents/18oregon-antideg-ip.pdf>
19. Pennsylvania Department of Environmental Protection
Water Quality Antidegradation Implementation Guidance
Document No. 391-0300-002
Nov. 29, 2003
<http://164.156.71.80/WXOD.aspx?fs=2087d8407c0e0000800003b9000003b9&ft=1>
20. Rhode Island Department of Environmental Management
Water Resources
Water Quality Regulations
Appendix C. Policy on the Implementation of the Antidegradation Provisions of the Rhode Island
Water Quality Regulations
Aug. 6, 1007
<http://www.dem.ri.gov/pubs/regs/regs/water/h20qlty.pdf> As of 7/25/07
<http://www.dem.ri.gov/pubs/regs/regs/water/h20q06.pdf>
21. South Carolina Department of Health and Environmental Control
Bureau of Water
Antidegradation Implementation for Water Quality Protection in South Carolina
July 1998
<http://www.scdhec.gov/cgc/water/pubs/antideg.pdf> As of 7/25/07:
<http://www.scdhec.gov/environment/water/docs/antideg.pdf#xml=http://www.scdhec.gov/cgi-bin/taxis.exe/Webinator/search/xml.txt?query=Antidegradation&pr=www&prox=page&rorder=750&rprox=750&rdfreq=250&rwfreq=500&rlead=1000&sufs=1&order=r&cq=&id=460c92a177> OR
<http://www.dnr.mo.gov/env/wpp/cwforum/documents/21s-carolina-antideg.pdf>

B. Non Peer-Reviewed Publications

22. Letter from Thomas R. Anderson, Executive Director, Save the Dunes Council, and
Albert F. Ettinger, Senior Staff Attorney, Environmental Law and Policy Center
Date: May 27, 2005
Subject: Second Notice #03-44(WBCB) Antidegradation Standards (3/10/05)
To: Megan Wallace, Rules Section, Office of Water Quality,
Indiana Dept. of Environmental Management
<http://www.dnr.mo.gov/env/wpp/cwforum/documents/5-05indiana-letter22.pdf>